Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-01-28-37** **Date: 25-11-21**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Park Fencing and other Works in Ward No.12
Agency	:	M/S Technical Manager(west) Karnataka Rural Infrastructure Development Limited. No.280, 59th Cross 17th C Main Road, 3rd Y Block Rajaji Nagara, Bangalore-560010
Customer's Reference	:	EE/DD/W.O/542/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	22-11-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	22-11-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1223	1223	8.2	91.8	90-100
3	20 mm	5972	7195	48.0	52.0	30-70
4	10 mm	5575	12770	85.1	14.9	10-35
5	4.75 mm	1873	14643	97.6	2.4	0-5
6	Pan	357	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-01-28-37** **Date: 25-11-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.47	–
5	Bulk Density(Compacted) (Kg/l)	1.51	–
6	Water Absorption(%)	0.22	–

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TEST REPORT ON COARSE AGGREGATES

:-5548

Lab ID	:	**CP-2022-01-28-37** **Date: 24-11-21**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Park Fencing and other Works in Ward No.12
Agency	:	M/S Technical Manager(west) Karnataka Rural Infrastructure Development Limited. No.280, 59th Cross 17th C Main Road, 3rd Y Block Rajaji Nagara, Bangalore-560010
Customer Reference	:	EE/DD/W.O/542/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-11-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	22-11-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	_

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2022-01-28-37**	**Date: 24-11-21**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.	
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Park Fencing and other Works in Ward No.12	
Agency	:	M/S Technical Manager(west) Karnataka Rural Infrastructure Development Limited. No.280, 59th Cross 17th C Main Road, 3rd Y Block Rajaji Nagara, Bangalore-560010	
Customer's Reference	:	EE/DD/W.O/542/2019-20	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	22-11-21	
Sample Type	:	Fine Aggregate	
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption	
Date of test	:	22-11-21	
Total weight taken	:	1000 grams	

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	31	31	3.1	96.9	90-100	90-100	90-100	95-100
3	2.36 mm	192	223	22.3	77.7	60-95	75-100	85-100	95-100
4	1.18 mm	152	375	37.5	62.5	30-70	55-90	75-100	90-100
5	600 micron	255	630	63.0	37.0	15-34	35-59	60-79	80-100
6	300 micron	186	816	81.6	18.4	5-20	8-30	12-40	15-50
7	150 micron	89	905	90.5	9.5	0-10	0-10	0-10	0-15
8	Pan	95	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST RESULTES FOR MS HOLLOW PIPE

Lab ID	:	**CP-2022-01-28-37** **Date: 01-12-21**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Agency	:	Improvements to Park Fencing and other Works in Ward No.12
Project Name	:	M/S Technical Manager(west) Karnataka Rural Infrastructure Development Limited. No.280, 59th Cross 17th C Main Road, 3rd Y Block Rajaji Nagara, Bangalore-560010
Customer's Reference	:	EE/DD/W.O/542/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-11-21
Type of Sample	:	M.S Hollow Pipe
Reference to BIS codes	:	IS:1608-2005(RA 2011), IS 1599-2012.
Date of test	:	29-11-21

TESTS RESULTS FOR 50X50MM 14 GAUGE M.S HOLLOW PIPE				
Sl. No	**Description**	**Result**	**Required as per as IS Code 2062: 2011**	**Remarks**
1	Yeild Stress (N/mm2)	295	250N/mm^2	Satisfactory
2	Tensile Strength (N/mm2)	492	410N/mm^2	Satisfactory
3	Elongation Percentage (%)	24	Min 23%	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-01-28-37** **Date: 09/12/2021**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Park Fencing and other Works in Ward No.12

Agency : M/S Technical Manager(west) Karnataka Rural Infrastructure Development Limited. No.280, 59th Cross 17th C Main Road, 3rd Y Block Rajaji Nagara, Bangalore-560010

Customer's Reference : EE/DD/W.O/542/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-12-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/12/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	02/12/2021	09/12/2021	149.96 X 150.98 X 150.11	22641	8.155	498.5	11.9	12.1
2	PCC	M15	02/12/2021	09/12/2021	150.54 X 150.32 X 150.45	22629	8.132	456.3	12.3	
3	PCC	M15	02/12/2021	09/12/2021	149.45 X 151.43 X 150.32	22631	8.165	470.5	12.1	

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2022-01-28-37**	**Date: 26-11-21**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.	
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Park Fencing and other Works in Ward No.12	
Agency	:	M/S Technical Manager(west) Karnataka Rural Infrastructure Development Limited. No.280, 59th Cross 17th C Main Road, 3rd Y Block Rajaji Nagara, Bangalore-560010	
Customer's Reference	:	EE/DD/W.O/542/2019-20	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	22-11-21	
Sample Type /Size	:	Precast Cover Slab	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	22/11/2021	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.358	4477	95.8	21.4	19.9	24.9
2	Cover Slab-2	75.49	100.52	1.402	4475	98.1	21.9	20.4	25.5
3	Cover Slab-3	75.50	100.51	1.388	4476	99.7	22.3	20.7	25.9

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTES FOR MS RECTANGULAR POLE

Lab ID	:	**CP-2022-01-28-37** **Date: 01-12-21**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Park Fencing and other Works in Ward No.12
Agency	:	M/S Technical Manager(west) Karnataka Rural Infrastructure Development Limited. No.280, 59th Cross 17th C Main Road, 3rd Y Block Rajaji Nagara,
Customer's Reference	:	EE/DD/W.O/542/2019-20
Sourse of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-11-21
Type of Sample	:	M.S Rectangular Pole(65X65X6)mm
Reference to BIS codes	:	IS:1608-2005(RA 2011), IS 1599-2012.
Date of test	:	29-11-21

TESTS RESULTS FOR M.S RECTANGULAR POLES MADE OUT OF 2 EQUAL ANGLES OF 65 X 65 X 6 MM WELDED TOGETHER

SL.NO	Description	Result	Required as per IS Code 2062:2011	Remarks
1	Weight/Meter (Kg /m)	5.82	5.8 Kg/m	Satisfactory
2	Yeild stress (N/mm2)	282	250N/mm^2	Satisfactory
3	Tensile Strength (N/mm2)	489	410N/mm^2	Satisfactory
4	Elongation Percentage (%)	24	Min23%	Satisfactory
5	Bend Test	Satisfactory	Should not Crack or fracture	Satisfactory

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TEST RESULTS FOR CHAIN LINK FENCING

Lab ID	:	**CP-2022-01-28-37** **Date: 01-12-21**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Park Fencing and other Works in Ward No.12
Agency	:	M/S Technical Manager(west) Karnataka Rural Infrastructure Development Limited. No.280, 59th Cross 17th C Main Road, 3rd Y Block Rajaji Nagara, Bangalore-560010
Customer's Reference	:	EE/DD/W.O/542/2019-20
Sourse of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-11-21
Type of Sample	:	Chain Link Fencing
Reference to BIS codes	:	IS 2062:2011
Date of test	:	29-11-21

TESTS RESULT FOR WIRE MESH		
SL.NO	**Description**	**Result**
1	**Average Thickness in mm**	4.02
2	**Dia of linewire in mm**	3.15
3	**Mesh size in mm**	50.02
4	**Nominaldia of meshwire in mm**	2.52
5	**Bend Test**	Satisfactory

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TEST RESULTES FOR MS BLOCK PIPE

Lab ID	:	**CP-2022-01-28-37** **Date: 01-12-21**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Agency	:	Improvements to Park Fencing and other Works in Ward No.12
Project Name	:	M/S Technical Manager(west) Karnataka Rural Infrastructure Development Limited. No.280, 59th Cross 17th C Main Road, 3rd Y Block Rajaji Nagara, Bangalore-560010
Customer's Reference	:	EE/DD/W.O/542/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-11-21
Type of Sample	:	M.S Block Pipe
Reference to BIS codes	:	IS:1608-2005(RA 2011), IS 1599-2012.
Date of test	:	29-11-21

TESTS RESULTS FOR MS BLOCK PIPE 38MM DIA, 14 GAUGE

Sl. No	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Yeild Stress (N/mm2)	292	250N/mm^2	Satisfactory
2	Tensile Strength (N/mm2)	485	410N/mm^2	Satisfactory
3	Elongation Percentage (%)	23.5	Min 23%	Satisfactory

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ವಾರ್ಡ್ ನಂ 12, ಶೆಟ್ಟಿಹಳ್ಳಿ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

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****End of Report****

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-01-28-37** **Date: 21-12-21**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Park Fencing and other Works in Ward No.12
Agency	:	M/S Technical Manager(west) Karnataka Rural Infrastructure Development Limited. No.280, 59th Cross 17th C Main Road, 3rd Y Block Rajaji Nagara,
Customer's Reference	:	EE/DD/W.O/542/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-11-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	23-11-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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